

Title (en)
Hybrid wiggler

Title (de)
Hybrid-Wiggler

Title (fr)
Wiggler hybride

Publication
EP 0941019 A2 19990908 (EN)

Application
EP 99400398 A 19990218

Priority
JP 5081898 A 19980303

Abstract (en)
Disclosed is a novel hybrid wiggler as a kind of insertion devices, for example, in an electron accelerator. Different from a conventional hybrid wiggler consisting of two oppositely facing arrays each formed of an alternate arrangement of a plurality of permanent magnet blocks and a plurality of pole pieces of a soft magnetic material to generate a sine-curved periodical magnetic field in the gap space between the arrays to cause meandering of electron beams, each of the pole pieces is sandwiched on the lateral surfaces with a pair of auxiliary permanent magnet blocks so that the periodical magnetic field generated in the gap space can be greatly strengthened. <IMAGE>

IPC 1-7
H05H 7/04

IPC 8 full level
G21K 1/093 (2006.01); **H05H 7/04** (2006.01); **H05H 13/04** (2006.01)

CPC (source: EP KR US)
G21K 1/093 (2013.01 - KR); **H05H 7/04** (2013.01 - EP KR US); **H05H 13/04** (2013.01 - KR)

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Designated contracting state (EPC)
DE FR GB

DOCDB simple family (publication)
EP 0941019 A2 19990908; **EP 0941019 A3 20001115**; **EP 0941019 B1 20060118**; CN 1172563 C 20041020; CN 1230092 A 19990929; DE 69929507 D1 20060406; DE 69929507 T2 20060810; JP 4021982 B2 20071212; JP H11251097 A 19990917; KR 100560601 B1 20060316; KR 19990077533 A 19991025; TW 409488 B 20001021; US 2002044579 A1 20020418; US 6556595 B2 20030429

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